AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method of processing a food product in a retort vessel

comprising:

(a) placing the food product in a container having a fiber-based material

component and sealing the container closed, the container having at least one exposed edge of

paperboard;

(b) placing the closed container in the vessel and cooking the food product

therein including regulating the interior conditions of the vessel using a control temperature and

a control pressure; and

(c) cooling the food product within the vessel by reducing the control

temperature within the vessel according to a predefined temperature schedule, said temperature

schedule comprising a plurality of predetermined control temperature values;

(d) wherein cooling the food product further includes reducing the control

temperature within the vessel according to a predefined temperature schedule and actively

reducing the control pressure within the vessel according to a predefined pressure schedule; at

least a portion of the pressure schedule having a control pressure said pressure schedule

comprising a plurality of predetermined control pressure values, each control pressure value

corresponding to a control temperature value included in the temperature schedule and being less

than [[the]] a theoretical pressure resulting from based on the corresponding control temperature

schedule value, thereby helping to prevent moisture from entering into the exposed edge of

paperboard, said control pressure values being sufficient to prevent the closed container from

bursting.

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2. (Original) The method according to Claim 1, wherein cooling includes an initial

cooling phase and wherein the pressure schedule tracks the corresponding pressure reduction due

to the concurrent reduction in temperature during the initial cooling phase.

3. (Original) The method according to Claim 1, wherein the method of processing a

food product is an agitation method.

4. (Original) The method according to Claim 1, wherein the method of processing a

food product is a static process.

5. (Previously presented) The method according to Claim 1, wherein at least a

portion of the pressure schedule follows a theoretical reduction in pressure resulting from the

temperature schedule.

6. Canceled.

7. (Original) The method according to Claim 1, wherein cooling includes reducing

the control pressure in the vessel in a ramped manner.

8. (Original) The method according to Claim 1, wherein cooking includes using at

least one of spray water, trickling water, water vapor, superheated water, steam, and air.

9. (Original) The method according to Claim 1, wherein the control pressure

reaches an amount greater than 1.1 bar overpressure during the cooking phase.

10. (Currently amended) A method of batch processing a food product located in a

closed container having a paperboard material component, the method comprising:

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(a) closing the container using a packaging method whereby at least one edge

of paperboard material is exposed to the conditions exterior to the container, and placing the

closed container in a retort vessel;

(b) conducting a cooking phase within the vessel;

(c) conducting a cooling phase within the vessel, during which the

temperature within the vessel is reduced; during the cooling phase, a pressure exists within the

vessel and a pressure exists within the paperboard material at the at least one exposed edge; the

temperature within the vessel being reduced during the cooling phase according to a predefined

temperature schedule, said temperature schedule comprising a plurality of predetermined control

temperature values;

(d) wherein at least a portion of the cooling phase includes actively

controlling the pressure within the vessel according to a pressure schedule, said pressure

schedule comprising a plurality of predetermined control pressure values corresponding to the

control temperature values included in the temperature schedule, the control pressure values

being less than a theoretical pressure based on the corresponding control temperature value so

that the pressure in the vessel is less than the pressure in the paperboard material, thereby helping

to prevent moisture from entering into the exposed edge of the paperboard of the container, the

control pressure values being sufficient to prevent the closed container from bursting.

11. (Original) The method according to Claim 10, wherein cooling includes reducing

the pressure in the vessel at a rate in the range of about 0- bar/minute to about -0.25 bar/minute

during a portion thereof.

12. Canceled.

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13. (Original) The method according to Claim 10, wherein the pressure in the vessel

has a rate of reduction of less than about -0.25 bar/minute.

14. (Original) The method according to Claim 10, wherein the method of processing

a food product is an agitation method.

15. (Original) The method according to Claim 10, wherein the method of processing

a food product is a static process.

16. (Currently amended) In a method of processing a container comprising a

fiber-based material, the container containing a food product and having at least one exposed

edge of fiber-based material, the method including placing the container in a retort vessel,

conducting a cooking phase within the vessel, and conducting a cooling phase within the vessel;

an improvement to conducting the cooling phase comprising:

(a) reducing a temperature within the vessel according to a predefined

temperature schedule, said temperature schedule comprising a plurality of predetermined control

temperature values; and

(b) actively controlling [[the]] a vessel pressure to a value according to a

pressure schedule, said pressure schedule comprising a plurality of predetermined control

pressure values corresponding to control temperature values of the temperature schedule, each

control pressure value being less than a theoretical pressure based on the corresponding control

temperature value so that the vessel pressure is less than a pressure in the walls of the fiber-based

container during at least a portion of the cooling phase, thereby helping to prevent moisture from

entering into the exposed edge of the paperboard of the container, the vessel pressure being

sufficient to prevent the container from bursting.

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17. (Previously presented) The method according to Claim 16, wherein the vessel

control pressure is set to an amount in the range between about 0 bar to about 0.4 bar less than

pressure within the walls.

18. (Original) The method according to Claim 16, wherein pressure in the walls is

determined based on theoretical calculations.

19. (Original) The method according to Claim 16, wherein the cooling phase

includes an initial cooling phase, and wherein actively controlling the vessel pressure to a value

equal to or less than pressure in the walls of the fiber-based container is done during the initial

cooling phase.

20. (Original) The method according to Claim 19, wherein the initial cooling phase is

equal to or less than about 16 minutes.

21. Canceled.

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